Nome	HPLC Agilent 1100 series
Descrizione + immagine/i	**HPLC** (High Performance Liquid Chromatography) is analytical instrument utilized to separate and to purify the components of a sample mixture, to identify and to quantify each component. The diode array and fluorescence detectors are applied to UV-vis and fluorescent compounds. HPLC Agilent 1100 series consists of 6 modules: **1) Vacuum Degasser G 1379A** **2) Quaternary Pump G 1311°** **3)Thermostatted Column Compartment G 1316°** Thermostatted column compartment setable in a range 10 degrees below ambient to 80 °C, temperature stability ± 0.15 °C. **4) Detector DAD G 1315B** Detector DAD consists of 1024-element photodiode array, deuterium and tungsten lamps as light source. Wavelength range: 190-950 nm Max pressure: 50 bar **5) Detector Fluorescence detector G1321A** Multi-signal fluorescence detector with rapid on-line scanning capabilities and spectral data analysis. Excitation monochromator: Range: 200 nm - 700 nm. Bandwidth: 20 nm (fixed) Emission monochromator: Range: 280 nm - 900 nm. Bandwidth: 20 nm (fixed) Spectrum acquisition: Excitation or Emission spectra **6) Analytical Scale Fraction Collector G 1364C** Analytical Scale Fraction Collector commands through Time slices, Peak (threshold, up- / downslope), Timetable(combination of time intervals and peak) and Manual trigger.
Servizi per cui viene utilizzata	Quali-quantitative analysis of photosynthetic pigments for chemotaxonomic evaluation of phytoplankton communities. Quali-quantitative analysis of photosynthetic pigments involved in photoprotection in controlled experimental conditions Potential use for qualitative identification of detectable compounds through DAD and/or FLD, potential purification of these compounds simplified with fraction collector, possibility to quantify compounds of interest with a standard calibration curve at known concentrations.
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